

<210> 8

<211> 12
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 <213> Homo sapiens

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 <213> Homo sapiens

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<211> 2353
<212> DNA
<213> Homo sapiens
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<221> SITE
<222> (1759)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (1908)
<223> n equals a,t,g, or c
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<210> 13
 <211> 928
 <212> DNA
 <213> Homo sapiens

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<210> 14
 <211> 1590
 <212> DNA
 <213> Homo sapiens

<400> 14						
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<210> 15
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (406)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (794)
 <223> n equals a,t,g, or c

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cctggatttg	aagagatggc
atgtagccag	tgtggatatt
tcagtccagt	gtgagtattt
tgtaccgaca	gaaatagaca
tgttttgatc	cttcttgttt
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accctatcct	gttattttaa
tagtcttggtg	ctatgcagca
aaaaaaaaaa	attnctgogg
	tccgcaaggg
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	815

<210> 16
 <211> 990
 <212> DNA
 <213> Homo sapiens

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	120

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<210> 17
 <211> 1188
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (892)
 <223> n equals a,t,g, or c

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 <211> 1605
 <212> DNA
 <213> Homo sapiens

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<210> 19

<211> 2089

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (774)

<223> n equals a,t,g, or c

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<210> 20
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 <212> DNA
 <213> Homo sapiens

<400> 20	
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 <212> DNA
 <213> Homo sapiens

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 <222> (1207)
 <223> n equals a,t,g, or c

<400> 21

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<210> 22

<211> 1189

<212> DNA

<213> Homo sapiens

<400> 22

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 <211> 1492
 <212> DNA
 <213> Homo sapiens

<400> 23

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 <211> 1608
 <212> DNA
 <213> Homo sapiens

<400> 24

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 <211> 1964
 <212> DNA
 <213> Homo sapiens

<400> 25						
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<210> 26
 <211> 933
 <212> DNA
 <213> Homo sapiens

<400> 26

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<210> 27

<211> 1237

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (672)

<223> n equals a,t,g, or c

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 <211> 960
 <212> DNA
 <213> Homo sapiens

<400> 28	
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cacccagttt	gccttgcaga
cctgtcctgc	atcctcaaga
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<210> 29
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 29	
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ccacrgcata	caagtaaccc
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ttagcactkg	atcatacagc
aatcctctct	ccccactcaa
ttgtacacca	aacaatgtta
cggcttatag	gaaaawtcta
atcatgacca	accatccact
acccaatggt	tcccagtcac
tgcaatctaa	ctccctcttc
ttgaaccgtg	ccaggaacgg
gcattaataa	agacgacagg
tcaggaggag	ccactcggcg
cccatgttcc	tcagagttgg
aagggacaaa	acccaaaatt
	tgcaatcggt
	ttcaaaaaca
	actcgag
	60
	120
	180
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	360
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	600
	660
	720
	780
	840
	900
	960
	1020
	1067

<210> 30
 <211> 1063
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (965)

<223> n equals a,t,g, or c

<400> 30

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gttgtggggt	tgaggatttg	cagtttaaag	cagtttggtg	gtgctgataa	tttttttctg	180
attatcttca	agtctccatg	gacagtgta	ctgcaggtct	attcatgctt	tcgttcctcc	240
tttacctgcc	ttcatctgct	ttctctgggc	attggtaccc	ataccaggt	gtggtcagtt	300
ggagtaactc	ctgccttgct	gggcttaact	gtggtgtttc	tgggcctaag	gcaattggaa	360
catctgtagt	ttatttctta	atcccaattt	tgtggagggt	tgtgttctag	ctttgattca	420
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tgtgagggtg	cacacattaa	aactgtttta	caccatgagc	attgacttca	ttcggtcagt	660
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tttgnacaac	ttcccaaattg	tacaaactcc	agacagatga	gtacagttgg	tgttttccgg	1020
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<210> 31

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 31

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ggggaactgc	tctgctgagc	ctcttctctca	cctgctgctt	cctaggacta	acctgaaagg	180
ctaaggtacc	aggctgaagt	cagtgtctcag	aaaaccaatc	gtcattcttt	gggggttttt	240
ttcttgaaga	gccactttct	ctttaccttg	ttctagcctg	ttggaggtag	ggtttctgca	300
attccaaagg	ccgtacacag	cctctcacca	tcagaccatt	ttttaaggct	cttcgttcat	360
acctagctcg	aagatttacc	tcctcaggaa	gccatttttag	ttacaaatct	gggaaaactt	420
aaaatgcttt	cattgtgcca	tgttttctgt	tgcagcttca	gtaccgtacc	tagtggtcag	480
gcatactttac	aagtttcttt	ttacagtaac	cccttggtgga	catctaataa	atggtcatta	540
tttttttagta	ctagtttgtt	ttcctgaaca	ctgtaagatc	tgtgactgac	gtttgatacc	600
ttaaagcagt	gccatataat	aactaccac	tatttgttct	ttatttctgt	cagataaaaa	660
tgttctatgt	agtgtctaca	gtcatttttt	ttttaactag	aatttagatt	tggagtagt	720
ttttctatta	gttgatttgc	atgaaataca	aaattaggaa	aaggcttatt	ccacctcaac	780
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tcacttaagg	gagaaggat	cagcagccta	ggaccacttg	gtttctgttt	ttatgtttca	1260
tagttcatgg	ctgataaaaa	ttacctgtcc	ttaggccgag	tgcagtgctt	cacacctgta	1320
atcccagcac	tttgggaggc	cgaggtgagt	agatcacctg	agatcaggag	ttcgagacca	1380
gcctggacaa	caagagcaaa	actccatctc	caaaaaaaaa	aaaaaaaaaa		1430

<210> 32
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1339)
 <223> n equals a,t,g, or c

<400> 32
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 tcacattttca gagttagttt tcaatggaag aaatgagcaa aggttttttat tttagttaat 180
 atagaaattt gaataattca gagtacagaa aggaacacat ttcatagaaca tgggtgggaat 240
 ttttcaactta atgtattata ttccaccaat atacaaatat ttgtatyatt ttagggcagt 300
 tagaatagaa aatacatttt cagtagaatc gttaataaat gaatagaaaa atgagaactc 360
 attggtgagg tagagagcaa acacacacta agggagtgcac ttgtaattga gcagaaattt 420
 cctttgagtt tcctaataagc caaagcaaaa gaaaaaaaaa aaaggaagga aacaaactta 480
 caaactctta ccatctaaaa aagaaatcat accattttttt aggtggtaca aacattttttc 540
 tattatcaaa ctagagggtg cttttaccat gtgaatattt ttataaaaggc tgtggaatga 600
 taatgtgaaa attccagggg ggaaagtaag caagaaagta aagctgcaga gctgcatgtt 660
 gggagtcagg tgacagaggt gaggagttgg atagggttgg gtctcaggta cttgaatytc 720
 tggggtggtt ttcttctgcc tagaaaggct tttgggaaag taaatgtgaa gtcacaagta 780
 gagaaaggaa acatcagaag agagacagcc tgagagtttg cagagctaag atctcagggt 840
 aatgggttatc tgccccaggg acaaaggatg ttgtaccctt ttccttagga tttttcttag 900
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 aagagcagca agtgccctctt ggagaacact ggggtggccta aacaggatgc aataataata 1020
 ctcttaaacg gtgtacattt tttaaaatgt ctttttgtat ataakwwaaa tataagagct 1080
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 agatctttct tacaaggaca gattgtttta agctaactag tattgtagtc aacgcttacc 1200
 caagggcaga atagagctga tcagaagcaa atcttgaatt caattcgtat ttatatatttc 1260
 aggaactcta aaattaattg atctttctgt tctgcccttc tgtcgtaact gccacagctc 1320
 cagctctggg cgacagagnc aagactccgt ctcaaaaaaa aaaaaaaaaa aagggcggcc 1380
 gc 1382

<210> 33
 <211> 1502
 <212> DNA
 <213> Homo sapiens

<400> 33
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 ccctttgaag tatagtcatt ggatgggatg agggacaggg cctgttgggt tcacagggcc 180
 ttgcaactgca tgggcacata cttaaaagct cttgtgcatg gaatccctgt ctgttagcca 240
 caggcctctt tagctctata cattcaaaat aactactgta gtagaaaata gataagcttc 300
 agctgagttg gcttttgata gtggaaaaaa aacaaaattt gactttttat ggccaaaatt 360
 ccttgttgac agctgtgatg ttctaataatg atttgggaat atgtcagtct acagaacctg 420
 catcctgtaa aaacaccttt ggggtagacg ataaaagtca tttttaaggc aaatacttac 480
 catgtgactt tttattacca aatgcatcag tagtggagct ggtatgttgt ttcataggat 540
 ggaaacatta gaagtccaga gaaaaataaa ttttaaaaaa aggtggaaaa gttacggcaa 600
 acctgagatt tcagcataaa atcttttagta tgaagtgaga gaaagaagag ggaggctggt 660
 tctgttgctc gtatcaatag gttatctgtg tccctcatct tgggtgttaca gtgttatctc 720
 tgtcagtatt atgaatatgt ggttgaccca tctgtcaaa tgtaccaaca ttttcgaaa 780

aattcattca aatctcttat gccaacagaa aagttccttc ttgtttaata tctctttacc	840
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gagtcacaa gcctgctgaa cctgatgggg cagctttttg aacagctttc tggaagtaag	960
aacttcagtt gaaaagccct ttgatcgctt cagcccggga catgcccttc agatggctta	1020
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aaatagcatc tgcagcaatt ggaatgagaa atccagatat gtgtttcaag tagtacattg	1320
cctgaatcac aaatcacttg atcacagtat tgtatataat ccctgacctt atttgtttca	1380
ttttattgta aattccatt tgcataaaaa cctaatagata gtgattggta agtaaaaaa	1440
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ag	1502

<210> 34
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 34	
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agacagggca gatagacact taagagtaaa atgtattaac acaaaggctc tggccgcccc	180
cctacaaagg aggccatgga accgatggaa ctgatggagg aaatgctggg actgtgggtc	240
agtgtctgaca caccatggc catacgtttg gtcttcttgg ccttggctgg gctgggtgat	300
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ggaagtacct ggggaagcag gagagactca cactgctgtc atggccccac agcctggagc	420
ctccccctgc tcctctgcct cttcagagcc cagcagaaag acagagaaag aagcctcctt	480
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gtagaaggca aggatgattg ggagtagaag gaagagtgc aggcctagcat gagctgtgca	600
gcagcaagat tccatattag caaagttcag aaagtgrgmm aaaaggacca agttggatct	660
cctcctaacc ctgacctgca tgatatgggt gtgagaagct tcaactgaga aagctgctga	720
gaaagta	727

<210> 35
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (300)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (353)
 <223> n equals a,t,g, or c

<400> 35	
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tgttgggcgg gctccgggcc agcgcacat ctactccctg ctccctgggc agttccctc	180
cctgccggca ccacgtcccc tctgacactg aggtcataaa taaagttcat ctttaaggcaa	240
atcatgtggt caagagagat gttgatgagc atttaagaat caagactgtc tatgataaan	300
tgktgaasag ttgctccctg agaaaaagaa tcttgtaaag aacaagcttc tcncacawgc	360

gatttcttat	ttagagaaga	cttttcaggt	cgtcgacct	gcgggcacta	tcttacttag	420
cagacaatgt	gcaacaaacc	aatacctccg	gaaggaaaac	gatcctcaca	ggtactgcac	480
cggggagtg	gcccacaca	caaagtgcgg	ccccgttatt	gttcctgagg	aacatctcca	540
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<210> 36
 <211> 2321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (787)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (880)
 <223> n equals a,t,g, or c

<400> 36						
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ctgaccacta	gccagtcttt	agttttgaaa	gcattacagt	ttaactcacc	attgcagttt	240
aataaccaga	catgctaaac	taattagtaa	tttagctaaa	gaataggctg	atagtggtag	300
acattactta	gcaatagtat	catttaggat	gagcaagcaa	gctgtgttgg	gagtggatga	360
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<210> 37
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<400> 37						
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catttaattg	ccatagcact	tacatggggc	aggtattcat	tttctgctt	agcaataaag	120
gaaactgaat	ttcagagatg	tcaggtaacc	tgccacttct	acacactagg	agttttgatg	180
tttaattttg	aactaagatc	tatctgttgg	gaaagctctt	ggcattaaac	aaccttgatg	240
aatatacttg	gaacgtaggt	gtgttttttg	cacagaacct	ggcatgtgtg	tgagggattg	300
aacacagact	tgcccagatt	caaacttacc	aatctttctg	ttcatgtgcc	cagaagaaac	360
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gttctccact	tgccctgact	ccattttctg	cattccagcc	atgtatttag	ctgttatcag	660
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aaatataaatt	ttcagaaaaa	ggttaaatca	tgactcatac	aaatataaaa	atgaacatgt	780
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<210> 38
 <211> 1701
 <212> DNA
 <213> Homo sapiens

<400> 38						
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<210> 39
 <211> 1903
 <212> DNA
 <213> Homo sapiens

<400> 39						
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<210> 40
 <211> 1280
 <212> DNA
 <213> Homo sapiens

<400> 40						
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gtctcctggg	gcggcagggg	ggtgggggtt	gtaattgtga	actcaccaaa	ccccaggttg	300
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<210> 41
 <211> 1918
 <212> DNA
 <213> Homo sapiens

<400> 41

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<210> 42

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (479)

<223> n equals a,t,g, or c

<400> 42

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gagccagccg	gcacagaagc	atggtggcaa	cgctgtgcct	ggaaaactca	tcagtgtcac	240
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aactcgta						1268

<210> 43

<211> 1201

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1197)

<223> n equals a,t,g, or c

<400> 43

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a						1201

<210> 44
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 44	
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ggcaaaaactt	atgtattacc agatactatg tctagtagtg ttttgttggc tcattcactc 180
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agatgctagg	gactcagcag tgagcacaac agataaagaa ttctgtcatt gcggagttta 300
catttttagtg	gcaggtgaca gataataagc taaattaaat aagcmaaata tacagtatgt 360
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gaatgatggt	cagatagtct tgaatatcac ctgtgcatca ttcttttaag aggctgtgtt 480
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<210> 45
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (170)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (184)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (728)
 <223> n equals a,t,g, or c

<400> 45

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 <212> DNA
 <213> Homo sapiens

<400> 46

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<211> 1859
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 <211> 1461
 <212> DNA
 <213> Homo sapiens

<400> 49

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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tatccctttg	tgggggctgc	ttatttttaa	gatgttgggg	gggaaacaaa	cccaaactca	840
cgagcagtag	ttgcacatag	ttgccagttt	taccttctta	gtcattagat	ttccaaacca	900
tgttgcagtt	ttttgggtcca	gatatagtat	ttctttctaa	taaagtttta	tgttgctgct	960

ctaaaaaaaa aaaaaaaaaa aaaactcgta g

991

<210> 53
 <211> 2422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (388)
 <223> n equals a,t,g, or c

<400> 53
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 gctctgtgcc tctgtctcac ctgtggtgag ctgggcgagc tgggcgagct gggcgagctg 180
 ggctggggag agcctgtgag gaccgagagg agaaatgaga agaaggaaca aaaatattat 240
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 ctgtaccagt gtcaaatgct gcagcctgcc aagctgtgat tttgtgaggc ttgtccctat 360
 gtaggatgca ccgcaggccc ctggcacntg aaagagtgtg cagtggactg tgggtctccc 420
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 ttggaatgtt tttccccgat tgtggatgac ttcttttctg atggagagag tccaggaggg 540
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 tccagtatgt aaatgaatgt tctataaatc ttttgtatag tcattttctc tgctccttaa 2340
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 aaaaaaaaaa aaaaaaactc ga 2422

<210> 54

<211> 985
 <212> DNA
 <213> Homo sapiens

<400> 54
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 gtgccagcct ctaataactcc ttccttactc ttcattggaaa ccttgaagag tgattaaaaa 120
 tagtactgtt tatgtctctg accacagagc cagtcatctt cagcacttaa ctgaaattgc 180
 tcatgatagt gtttctaaca atggccacat aagtggcaaa tcccttaaga attttgcctt 240
 ctcagcaggt ggcaatctgc cacctttatc tgatcatctt tctctctctt tggcattgta 300
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 ataagttgtt agccgtgcag cactgccaag gaattgcacc aaatgtgtat gcattagcag 480
 ttaagaagag cgtgtgcaat gttagtgaat ggagtctggt catttgatcat ccaatgccta 540
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 gaggcgcarg tgggtggawc acctgaggtc aggarttcaa gaccagcctg gccaacatga 780
 taaaaccccg tctctactaa aaatmcaaaa cctagccarg catggtggca ggccgctata 840
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<210> 55
 <211> 932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (888)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (890)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (892)
 <223> n equals a,t,g, or c

<400> 55
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 gccatgccac caaccctgct ggttatccgg cagaatgggc atgcagccag ccggcggcta 300
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<210> 56
<211> 957
<212> DNA
<213> Homo sapiens
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<400> 56
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240
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660
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720
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780
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840
ttttggcgat ttatacaacc aaactccaag ccagttccg aagctctgag ccttccatgg
900

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cctcaggctg ggattcaggt gcctggaggt gggggataacc cgcaccacagc cctcagag
957

<210> 57
<211> 1433
<212> DNA
<213> Homo sapiens

<400> 57
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120
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180
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240
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1433

<210> 58
 <211> 1940
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1573)
 <223> n equals a,t,g, or c

<400> 58
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 240
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 420
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 660
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 780
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 840
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 1200

1006543 1206543

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 1320
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 1740
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 1800
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 1920
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 1940

<210> 59
 <211> 1715
 <212> DNA
 <213> Homo sapiens

<400> 59
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 accatgctgg tgactgccta ccttgctttt gtaggcctcc tggcctcctg cctggggctg
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 1440
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 1560
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 1680
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 1715

<210> 60

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (308)

<223> Xaa equals stop translation

<400> 60

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 20 25 30
 Val Asp Val Val Leu Asp Cys Phe Leu Ala Lys Asp Gly Ala His Arg
 35 40 45
 Gly Ala Leu Ala Ser Ser Glu Asp Arg Ala Arg Ala Ser Leu Val Leu
 50 55 60
 Lys Gln Val Pro Val Leu Asp Asp Gly Ser Leu Glu Asp Phe Thr Asp
 65 70 75 80
 Phe Gln Gly Gly Thr Leu Ala Gln Asp Asp Pro Pro Ile Ile Phe Glu
 85 90 95
 Ala Ser Val Asp Leu Val Gln Ile Pro Gln Ala Glu Ala Leu Leu His
 100 105 110
 Ala Asp Cys Ser Gly Lys Glu Val Thr Cys Glu Ile Ser Arg Tyr Phe
 115 120 125
 Leu Gln Met Thr Glu Thr Thr Val Lys Thr Ala Ala Trp Phe Met Ala
 130 135 140
 Asn Met Gln Val Ser Gly Gly Gly Pro Ser Ile Ser Leu Val Met Lys
 145 150 155 160
 Thr Pro Arg Val Xaa Lys Asn Glu Ala Leu Trp His Pro Thr Leu Asn
 165 170 175
 Leu Pro Leu Ser Pro Gln Gly Thr Val Arg Thr Ala Val Glu Phe Gln
 180 185 190
 Val Met Thr Gln Thr Gln Ser Leu Ser Phe Leu Leu Gly Ser Ser Ala
 195 200 205
 Ser Leu Asp Cys Gly Phe Ser Met Ala Pro Gly Leu Asp Leu Ile Ser
 210 215 220
 Val Glu Trp Arg Leu Gln His Lys Gly Arg Gly Gln Leu Val Tyr Ser
 225 230 235 240
 Trp Thr Ala Gly Arg Gly Xaa Leu Cys Gly Arg Ala Leu Pro Trp Ser
 245 250 255
 Leu His Asn Trp Ala Trp Pro Gly Met Pro Pro Ser Pro Cys Pro Ala
 260 265 270
 Ser Leu Tyr Arg Thr Arg Gly Pro Thr Phe Ala Arg Ser Pro Pro Leu
 275 280 285
 Cys Thr Glu Leu Ser Arg Ser Ser Ser Ser Thr Ser Lys Leu Pro Leu
 290 295 300
 Lys Tyr Asp Xaa
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<210> 61
 <211> 579
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (574)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (579)
 <223> Xaa equals stop translation

<400> 61
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 Val Val Leu Ala Ile Leu Ala Arg Asn Ala Glu His Ser Leu Pro His
 35 40 45
 Tyr Leu Gly Ala Leu Glu Arg Leu Asp Tyr Pro Arg Ala Arg Met Xaa
 50 55 60
 Leu Trp Cys Ala Thr Asp His Asn Val Asp Asn Thr Thr Glu Met Leu
 65 70 75 80
 Gln Glu Trp Leu Ala Ala Val Gly Asp Asp Tyr Ala Ala Val Val Trp
 85 90 95
 Arg Pro Glu Gly Glu Pro Arg Phe Tyr Pro Asp Glu Glu Gly Pro Lys
 100 105 110
 His Trp Thr Lys Glu Arg His Gln Phe Leu Met Glu Leu Lys Gln Glu
 115 120 125
 Ala Leu Thr Phe Ala Arg Asn Trp Gly Ala Asp Tyr Ile Leu Phe Ala
 130 135 140
 Asp Thr Asp Asn Ile Leu Thr Asn Asn Gln Thr Leu Arg Leu Leu Met
 145 150 155 160
 Gly Gln Gly Leu Pro Val Val Ala Pro Met Leu Asp Ser Gln Thr Tyr
 165 170 175
 Tyr Ser Asn Phe Trp Cys Gly Ile Thr Pro Gln Gly Tyr Tyr Arg Arg
 180 185 190

Thr Ala Glu Tyr Phe Pro Thr Lys Asn Arg Gln Arg Arg Gly Cys Phe
 195 200 205
 Arg Val Pro Met Val His Ser Thr Phe Leu Ala Ser Leu Arg Ala Glu
 210 215 220
 Gly Ala Asp Gln Leu Ala Phe Tyr Pro Pro His Pro Asn Tyr Thr Trp
 225 230 235 240
 Pro Phe Asp Asp Ile Ile Val Phe Ala Tyr Ala Cys Gln Ala Ala Gly
 245 250 255
 Val Ser Val His Val Cys Asn Glu His Arg Tyr Gly Tyr Met Asn Val
 260 265 270
 Pro Val Lys Ser His Gln Gly Leu Glu Asp Glu Arg Val Asn Phe Ile
 275 280 285
 His Leu Ile Leu Glu Ala Leu Val Asp Gly Pro Arg Met Gln Ala Ser
 290 295 300
 Ala His Val Thr Arg Pro Ser Lys Arg Pro Ser Lys Ile Gly Phe Asp
 305 310 315 320
 Glu Val Phe Val Ile Ser Leu Ala Arg Arg Pro Asp Arg Arg Glu Arg
 325 330 335
 Met Leu Ala Ser Leu Trp Glu Met Glu Ile Ser Gly Arg Val Val Asp
 340 345 350
 Ala Val Asp Gly Trp Met Leu Asn Ser Ser Ala Ile Arg Asn Leu Gly
 355 360 365
 Val Asp Leu Leu Pro Gly Tyr Gln Asp Pro Tyr Ser Gly Arg Thr Leu
 370 375 380
 Thr Lys Gly Glu Val Gly Cys Phe Leu Ser His Tyr Ser Ile Trp Glu
 385 390 395 400
 Glu Val Val Ala Arg Gly Leu Ala Arg Val Leu Val Phe Glu Asp Asp
 405 410 415
 Val Arg Phe Glu Ser Asn Phe Arg Gly Arg Leu Glu Arg Leu Met Glu
 420 425 430
 Asp Val Glu Ala Glu Lys Leu Ser Trp Asp Leu Ile Tyr Leu Gly Arg
 435 440 445
 Lys Gln Val Asn Pro Glu Lys Glu Thr Ala Val Glu Gly Leu Pro Gly
 450 455 460
 Leu Val Val Ala Gly Tyr Ser Tyr Trp Thr Leu Ala Tyr Ala Leu Arg
 465 470 475 480
 Leu Ala Gly Ala Arg Lys Leu Leu Ala Ser Gln Pro Leu Arg Arg Met
 485 490 495

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Leu Pro Val Asp Glu Phe Leu Pro Ile Met Phe Asp Gln His Pro Asn
500 505 510

Ala Gln Pro Leu Leu Ala Ala Pro Thr His Tyr Ala Gly Asp Ala Glu
530 535 540

Arg Leu Ile Ser Trp Ser Gly Ser Gln Lys Thr Leu Arg Xaa Pro Ala
565 570 575

Trp Thr Xaa

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<210> 62
<211> 184
<212> PRT
<213> Homo sapiens
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```
<400> 62
Met Leu Met Leu Ala Val Leu Met Ala Ala Thr His Ala Val Tyr Gly
  1                   5           10           15
```

Lys Leu Leu Leu Phe Glu Tyr Arg His Arg Lys Met Lys Pro Val Gln
20 25 30

Met Val Pro Ala Ile Ser Gln Asn Trp Thr Phe His Gly Pro Gly Ala
35 40 45

Thr Gly Gln Ala Ala Ala Asn Trp Ile Ala Gly Phe Gly Arg Gly Pro
50 55 60

Met Pro Pro Thr Leu Leu Gly Ile Arg Gln Asn Gly His Ala Ala Ser
65 70 75 80

Arg Arg Leu Leu Gly Met Asp Glu Val Lys Gly Glu Lys Gln Leu Gly
85 90 95

Arg Met Phe Tyr Ala Ile Thr Leu Leu Phe Leu Leu Leu Trp Ser Pro
100 105 110

Tyr Ile Val Ala Cys Tyr Trp Arg Val Phe Val Lys Ala Cys Ala Val
115 120 125

Pro His Arg Tyr Leu Ala Thr Ala Val Trp Met Ser Phe Ala Gln Ala
130 135 140

Ala Val Asn Pro Ile Val Cys Phe Leu Leu Asn Lys Asp Leu Lys Lys
145 150 155 160

Cys Leu Arg Thr His Ala Pro Cys Trp Gly Thr Gly Gly Ala Pro Ala
165 170 175

THE LIFE OF

<400> 63																	
Met	Gly	Ile	Leu	Leu	Gly	Leu	Leu	Leu	Leu	Gly	His	Leu	Thr	Val	Asp		
1				5						10					15		
Thr	Tyr	Gly	Arg	Pro	Ile	Leu	Glu	Val	Pro	Glu	Ser	Val	Thr	Gly	Pro		
			20					25						30			
Trp	Lys	Gly	Asp	Val	Asn	Leu	Pro	Cys	Thr	Tyr	Asp	Pro	Leu	Gln	Gly		
		35					40					45					
Tyr	Thr	Gln	Val	Leu	Val	Lys	Trp	Leu	Val	Gln	Arg	Gly	Ser	Asp	Pro		
	50					55					60						
Val	Thr	Ile	Phe	Leu	Arg	Asp	Ser	Ser	Gly	Asp	His	Ile	Gln	Gln	Ala		
65					70					75					80		
Lys	Tyr	Gln	Gly	Arg	Leu	His	Val	Ser	His	Lys	Val	Pro	Gly	Asp	Val		
				85					90					95			
Ser	Leu	Gln	Leu	Ser	Thr	Leu	Glu	Met	Asp	Asp	Arg	Ser	His	Tyr	Thr		
			100					105					110				
Cys	Glu	Val	Thr	Trp	Gln	Thr	Pro	Asp	Gly	Asn	Gln	Val	Val	Arg	Asp		
			115				120					125					
Lys	Ile	Thr	Glu	Leu	Arg	Val	Gln	Lys	His	Ser	Ser	Lys	Leu	Leu	Lys		
	130					135						140					
Thr	Lys	Thr	Glu	Ala	Pro	Thr	Thr	Met	Thr	Tyr	Pro	Leu	Lys	Ala	Thr		
145					150					155					160		
Ser	Thr	Val	Lys	Gln	Ser	Trp	Asp	Trp	Thr	Thr	Asp	Met	Asp	Gly	Tyr		
				165					170					175			
Leu	Gly	Glu	Thr	Ser	Ala	Gly	Pro	Gly	Lys	Ser	Leu	Pro	Val	Phe	Ala		
			180					185					190				
Ile	Ile	Leu	Ile	Ile	Ser	Leu	Cys	Cys	Met	Val	Val	Phe	Thr	Met	Ala		
		195					200					205					
Tyr	Ile	Met	Leu	Cys	Arg	Lys	Thr	Ser	Gln	Gln	Glu	His	Val	Tyr	Glu		
	210					215					220						
Ala	Ala	Arg	Ala	His	Ala	Arg	Glu	Ala	Asn	Asp	Ser	Gly	Glu	Thr	Met		

Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met Xaa
100 105

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<210> 65
<211> 191
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
<221> SITE  
<222> (191)  
<223> Xaa equals stop translation
```

```
<400> 65  
Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
      1              5              10             15
```

Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His
20 25 30

Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
35 40 45

Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
50 55 60

Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
65 70 75 80

Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
85 90 95

Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
100 105 110

Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
115 120 125

Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
130 135 140

Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
145 150 155 160

Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu
 165 170 175

Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Xaa
 180 185 190

<210> 66
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (200)
 <223> Xaa equals stop translation

<400> 66
 Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe
 1 5 10 15

Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu
 20 25 30

Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro
 35 40 45

Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn
 50 55 60

Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met
 65 70 75 80

Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr
 85 90 95

Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu
 100 105 110

Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys
 115 120 125

Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln
 130 135 140

Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro Arg Pro Gly Gln
 145 150 155 160

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Arg Ala Pro Gln Pro Gln Pro Pro Gly Pro Leu Pro Gln Ala Pro
 165 170 175

Gln Ala Val His Thr Leu Arg Gly Asp Ala His Ser Pro Pro Leu Met
 180 185 190

Thr Phe Gln Ser Ser Ser Ala Xaa
 195 200

<210> 67
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

<400> 67
 Met Leu Leu Ser Ser Leu Ile Gly Trp Cys Ser Phe Val Glu Pro Val
 1 5 10 15

Leu Ile Phe Phe Phe Leu Thr Ile Leu Ile Arg Leu Leu Glu Gln Ser
 20 25 30

Asn Trp Gly Ile Glu Glu Met Lys Thr Gly Tyr Phe Cys Ile Cys Glu
 35 40 45

Val Gly Thr Gly Asn Ile Trp Thr Cys Ser Ser Tyr Ser Xaa
 50 55 60

<210> 68
 <211> 608
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (608)
 <223> Xaa equals stop translation

<400> 68
 Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe
 1 5 10 15

Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val
 20 25 30

Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln

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35	40	45
Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly Leu Pro		
50	55	60
Thr Val Val Pro Thr Leu Val Thr Pro Ser Ala Pro Gly Asn Arg Thr		
65	70	75 80
Val Asp Leu Phe Pro Val Leu Pro Ile Cys Val Cys Asp Leu Thr Pro		
	85	90 95
Gly Ala Cys Asp Ile Asn Cys Cys Cys Asp Arg Asp Cys Tyr Leu Leu		
	100	105 110
His Pro Arg Thr Val Phe Ser Phe Cys Leu Pro Gly Ser Val Arg Ser		
	115	120 125
Ser Ser Trp Val Cys Val Asp Asn Ser Val Ile Phe Arg Ser Asn Ser		
	130	135 140
Pro Phe Pro Ser Arg Val Phe Met Asp Ser Asn Gly Ile Arg Gln Phe		
	145	150 155 160
Cys Val His Val Asn Asn Ser Asn Leu Asn Tyr Phe Gln Lys Leu Gln		
	165	170 175
Lys Val Asn Ala Thr Asn Phe Gln Ala Leu Ala Ala Glu Phe Gly Gly		
	180	185 190
Glu Ser Phe Thr Ser Thr Phe Gln Thr Gln Ser Pro Pro Ser Phe Tyr		
	195	200 205
Arg Ala Gly Asp Pro Ile Leu Thr Tyr Phe Pro Lys Trp Ser Val Ile		
	210	215 220
Ser Leu Leu Arg Gln Pro Ala Gly Val Gly Ala Gly Gly Leu Cys Ala		
	225	230 235 240
Glu Xaa Asn Pro Ala Gly Phe Leu Glu Ser Lys Ser Thr Thr Cys Thr		
	245	250 255
Arg Phe Phe Lys Asn Leu Ala Ser Ser Cys Thr Leu Asp Ser Ala Leu		
	260	265 270
Asn Ala Ala Ser Tyr Tyr Asn Phe Thr Val Leu Lys Val Pro Arg Ser		
	275	280 285
Met Thr Asp Pro Gln Asn Met Glu Phe Gln Val Pro Val Ile Leu Thr		
	290	295 300
Ser Gln Ala Asn Ala Pro Leu Leu Ala Gly Asn Thr Cys Gln Asn Val		
	305	310 315 320
Val Ser Gln Val Thr Tyr Glu Ile Glu Thr Asn Gly Thr Phe Gly Ile		
	325	330 335
Gln Lys Val Ser Val Ser Leu Gly Gln Thr Asn Leu Thr Val Glu Pro		
	340	345 350

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Gly Ala Ser Leu Gln Gln His Phe Ile Leu Arg Phe Arg Ala Phe Gln
 355 360 365
 Gln Ser Thr Ala Ala Ser Leu Thr Ser Pro Arg Ser Gly Asn Pro Gly
 370 375 380
 Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr
 385 390 395 400
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys
 405 410 415
 Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu
 420 425 430
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln
 435 440 445
 Thr Leu His Gly-Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn
 450 455 460
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His
 465 470 475 480
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val
 485 490 495
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn
 500 505 510
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser
 515 520 525
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val
 530 535 540
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro
 545 550 555 560
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala
 565 570 575
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu
 580 585 590
 Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met Xaa
 595 600 605

<210> 69
 <211> 90
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals stop translation

<400> 69
 Met Ala Leu Arg Phe Leu Leu Leu Ser Ile Gly Pro Val Pro Ser Leu
 1 5 10 15
 Gly Asn Ile Ala Ala Ala Gly Ser Asp Glu Lys Cys Lys Leu Ala Met
 20 25 30
 Gln Arg Gly Ala Gln Ser Ser Val Asn Tyr Ser Gln Gly Ser Leu Lys
 35 40 45
 Asp Ala Ala Ser Ala Ser Thr Arg Thr Ala Ser Gly Trp Val Lys Arg
 50 55 60
 Asn Arg Ser Arg Glu Asn Gln Glu Met Leu Ile Tyr Ser Lys Asn Lys
 65 70 75 80
 Ile Pro Ile Trp Lys Ile Ser Lys Lys Xaa
 85 90

<210> 70
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals stop translation

<400> 70
 Met Ala Gly Leu Ile Phe Val Leu His Ser Cys Phe Arg Phe Ile Thr
 1 5 10 15
 Phe Val Cys Pro Thr Ser Ser Asp Pro Leu Arg Thr Cys Ala Val Leu
 20 25 30
 Leu Cys Val Gly Tyr Gln Asp Leu Pro Asn Pro Val Phe Arg Tyr Leu
 35 40 45
 Gln Ser Val Asn Glu Leu Leu Ser Thr Leu Leu Asn Ser Asp Ser Pro
 50 55 60
 Gln Gln Val Leu Gln Phe Val Pro Met Glu Val Leu Leu Lys Gly Ala
 65 70 75 80
 Leu Leu Asp Phe Leu Trp Asp Leu Asn Ala Ala Ile Ala Lys Arg His
 85 90 95
 Leu His Phe Ile Ile Gln Arg Glu Arg Glu Glu Ile Ile Asn Ser Leu
 100 105 110
 Gln Leu Gln Asn Xaa

115

<210> 71
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals stop translation

<400> 71
 Met Cys Val Trp Gly Val Cys Val Cys Val Val Ala Arg Val Cys Val
 1 5 10 15
 Trp Leu Gly Leu Ala Glu Leu Phe Arg Gly Arg Val Arg Asp Cys Gly
 20 25 30
 Lys Ile Thr His Phe Pro Thr Tyr Leu Leu Tyr Trp Thr Leu Lys Asn
 35 40 45
 Asn Asn Lys His Gln Val Lys Phe Leu Asn His Val Leu Cys Val Cys
 50 55 60
 Val Cys Val Cys Val Cys Val Cys Ile Cys Lys Cys Ile Cys Ile Cys
 65 70 75 80
 Met Leu Leu Tyr Phe Gln Val Asn Asn Tyr Ile Glu Asp Cys Ile Ala
 85 90 95
 Gln Lys His Ser Leu Ile Lys Val Leu Arg Leu Val Cys Leu Gln Ser
 100 105 110
 Val Cys Asn Ser Gly Leu Lys Gln Lys Val Leu Asp Tyr Tyr Lys Arg
 115 120 125
 Glu Ile Leu Gln Val Ser Ile Phe Leu Asn Tyr Xaa
 130 135 140

<210> 72
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals stop translation

<400> 72
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

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Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45
 Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60
 Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80
 Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser Xaa
 85 90 95

<210> 73
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals stop translation

<400> 73
 Met Ser Leu Tyr Lys Ile His Leu Leu Leu Tyr Val Ala Val Leu Ser
 1 5 10 15
 Ser Val Ala Ser Ser Tyr Pro Glu Ala Gln His Met Ser Pro Gly Gln
 20 25 30
 Val Pro Lys Phe Gln Ala Val Leu Ser Val Lys Ala Gly Val Cys Met
 35 40 45
 Cys Tyr Gln His Met Ile Arg Gly Arg Pro Thr Gln Gly Ala Val Ser
 50 55 60
 Val Ala Gln Gln Ser Thr Thr Phe Thr Val Ala Tyr Phe Xaa
 65 70 75

<210> 74
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals stop translation

<400> 74
 Met Ala Val Arg Leu Ile Lys Pro Ala Val Phe Ala Val Leu Ala Gly
 1 5 10 15

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51

Phe Ser Val Leu Trp Leu Ser Pro Ala Ser Leu Ala Ala Ser Phe Asp
 20 25 30

Cys Asp Arg Ala Lys Arg Leu Thr Arg Lys Pro Ser Val Pro Arg Ala
 35 40 45

Pro Ser Met Ile Arg Thr Xaa
 50 55

<210> 75
 <211> 210
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (200)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals stop translation

<400> 75
 Met Tyr Phe Leu Phe Phe Phe Ala Phe Phe Phe Phe Pro Leu Phe Cys
 1 5 10 15

Tyr Cys Phe Asn Tyr Asn Lys Arg Ala Arg Gly Ser Gln Ala Leu Ala
 20 25 30

Arg Ser Trp Arg Pro Met Gly Val Leu Gly Arg Gly Arg Gly Glu Val
 35 40 45

Ser Gly Gly Gln Arg Trp Arg Val Lys Asn Glu Lys Val Gly Glu Leu
 50 55 60

Gly Leu Ala Gln Glu Pro Cys Val Pro Ala His Ser Pro Pro Ser Leu
 65 70 75 80

Pro Leu Pro Thr Ser Leu Pro Leu His Gly Phe Ser Pro Pro Leu Pro
 85 90 95

Glu Ser Tyr Gly Thr Gly Pro Cys Ser Ser Gly Ile Gln Leu Leu Pro
 100 105 110

Ala His Ser Ser Ser Trp Ala Thr Ser Pro Pro Thr Phe Asp Val Ser

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<210> 77
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Leu Leu Leu Met Leu Val Asn Thr Ser Ala Val Ala Cys Thr His
 1 5 10 15
 Gly Gly Arg Gly Pro Trp Gly Asn Ser Ala Ala Gln Ala Cys Ala Ala
 20 25 30
 Leu Ala Pro Trp Pro Arg Gln Asp Pro Ser Ala Ala Ser Gln Trp Gln
 35 40 45
 Pro Gln Val Leu Val Gly Leu Leu Ser Tyr His Gly Trp Gly Gly Gln
 50 55 60
 Arg Leu Ser Pro-Cys Pro Arg Ser Ile Cys Cys Val Ser Thr Arg His
 65 70 75 80
 Leu Glu Gly Ala Arg Ser Lys Ala Gln Gly Pro Ala Ala Trp Leu His
 85 90 95
 Met Glu Val Arg Val Pro Arg Val Gln Pro Pro Ala Leu Gln Val Pro
 100 105 110
 Ser Ser Ser Asp Lys Ala Gly Gln Gly Arg Trp Gly Val Pro Gly Gln
 115 120 125
 Arg Gly Leu Val Gly Arg Gly Gly Gly Cys Lys Val Thr Pro Ser Leu
 130 135 140
 Pro Cys Arg Arg Thr Glu Arg Lys Arg Thr Ala Ala Ser Ala Lys Val
 145 150 155 160
 Thr Cys Pro Ala Ser Ser Arg Arg Pro Trp Gly Trp Gln Ser Ser Pro
 165 170 175

<210> 78
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 78
 Met His Lys Asn Asn Leu Phe Leu Cys Val Leu Phe Arg Leu Leu Phe
 1 5 10 15

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54

Arg Cys Ser Cys Phe Asn Leu Leu Asn Phe Pro Gln Thr Tyr Ala Val
20 25 30

Gly Lys Gly Gln Ala Gly Lys Asp Gln Cys Ser Ser Xaa
35 40 45

<210> 79
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals stop translation

<400> 79
Met Asp Ser Val Thr Ala Gly Leu Phe Met Leu Ser Phe Leu Leu Tyr
1 5 10 15

Leu Pro Ser Ser Ala Phe Ser Gly His Trp Tyr Pro Tyr Pro Gly Val
20 25 30

Val Ser Trp Ser Asn Ser Cys Leu Ala Gly Leu Asn Cys Gly Val Ser
35 40 45

Gly Pro Lys Ala Ile Gly Thr Ser Val Val Tyr Phe Leu Ile Pro Ile
50 55 60

Leu Trp Arg Phe Val Phe Xaa
65 70

<210> 80
<211> 56
<212> PRT
<213> Homo sapiens

<400> 80
Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
1 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
35 40 45

Leu Pro Arg Thr Asn Leu Lys Gly
50 55

<210> 81
<211> 49
<212> PRT
<213> Homo sapiens

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<400> 81

Xaa

<400> 82

His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly Xaa
35 40 45

<400> 83

Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys

<210> 85
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 85
 Met Gln Cys Asp Thr Phe Ser Lys Ala Thr Cys Cys Lys Ile Leu Leu
 1 5 10 15
 Leu Ser Cys Cys Val Leu Tyr Leu Val Phe Ser Arg Leu Arg Gly Leu
 20 25 30
 Asp Gln Arg Ser-Lys Arg Tyr Ser Leu Pro Asp His Xaa
 35 40 45

<210> 86
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals stop translation

<400> 86
 Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile
 1 5 10 15
 Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu
 20 25 30
 Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly
 35 40 45
 Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser
 50 55 60
 Leu His Xaa
 65

<210> 87
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)

<223> Xaa equals stop translation

<400> 87

Met Leu Phe Leu Asn Leu Thr Val Thr Cys Ile Phe Leu Phe Cys Phe
1 5 10 15

Tyr Phe Asn Val Leu Val Ala His Leu Met Asn Val Asn Leu Lys Asn
20 25 30

Ser Val Gln Leu Ser Arg Tyr Asn Ser Ala Lys Gln Ile Leu Lys Leu
35 40 45

His Ile Thr Leu Gln His Met Val Pro His Thr Leu Ile Val Ala Phe
50 55 60

Tyr Ile Phe Ser Tyr Tyr Tyr Xaa
65 70

<210> 88

<211> 212

<212> PRT

<213> Homo sapiens

<400> 88

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60

Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
65 70 75 80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser
85 90 95

Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser
100 105 110

Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser
115 120 125

Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp
130 135 140

Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser
145 150 155 160

Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr
165 170 175

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Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys
 180 185 190

Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys
 195 200 205

Ser Tyr Cys Phe
 210

<210> 89
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals stop translation

<400> 89
 Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
 1 5 10 15
 Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
 20 25 30
 Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
 35 40 45
 Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
 50 55 60
 Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val
 65 70 75 80
 Gly Ser Lys Trp Val Gly His Arg Lys Lys Ser Asp Leu Gln Ser Gly
 85 90 95
 Asp Leu Gly Ser Gly Leu Cys Leu Met Thr Gly Ser Val Met Xaa
 100 105 110

<210> 90
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 90
 Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met Leu Phe
 1 5 10 15
 Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala

10065403333

20 25 60 30

Gly Lys Arg Glu Pro Leu Lys Leu Gly Xaa
 35 40

<210> 91
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals stop translation

<400> 91
 Met Val Ala Thr Leu Cys Leu Glu Asn Ser Ser Val Ser Leu Trp Phe
 1 5 10 15

Ile Phe Leu Ser Ser Leu Ser Ser Phe Pro Trp Cys Gly Ala Leu Ser
 20 25 30

Asp Asn Trp Pro Ser Gly Gly Ala Val Ala Arg Cys His Ser Gly Arg
 35 40 45

Arg Trp Phe Pro Glu Gly Ser Xaa Cys Leu Xaa
 50 55

<210> 92
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals stop translation

<400> 92
 Met Phe Cys Ile Gln Gln Lys Trp Leu Phe Ser Phe Leu Phe Tyr Glu
 1 5 10 15

Val Gly Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys
 20 25 30

Ser Val Glu Val Phe Pro Ser Gln Asp Val Lys Cys Gln Arg Ser Asp
 35 40 45

Ser Cys Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn
 50 55 60

61

Glu Val Arg Gln Leu Ser Leu Arg Gln Lys Thr Met Xaa
65 70 75

<210> 93
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals stop translation

<400> 93
Met Ala Lys Leu Met Tyr Tyr Gln Ile Leu Cys Leu Val Val Phe Cys
1 5 10 15

Trp Leu Ile His Ser Phe Ile His Leu Phe Asn Lys His Phe Leu Ile
20- 25 30

Ala Phe Tyr Val Pro Gly Pro Ala Ile Asp Ala Arg Asp Ser Ala Val
35 40 45

Ser Thr Thr Asp Lys Glu Phe Cys His Cys Gly Val Tyr Ile Leu Val
50 55 60

Ala Gly Asp Arg Xaa
65

<210> 94
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals stop translation

<400> 94
Met Glu Thr Thr Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile
1 5 10 15

Ile Ser Asn Leu Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln
20 25 30

Arg Val Asp Leu Ser Ser Thr His Glu Asp Leu Xaa
35 40

<210> 95
<211> 47
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 95

Met Lys Ala Gln Met Leu Leu Ser Leu Ala Trp Pro Leu Pro Leu Ser
 1 5 10 15

Thr Ala Asn Ser Cys Leu Pro Gln Phe Pro Arg Gly Leu Tyr Ser Ala
 20 25 30

His Tyr Cys Pro Ser Cys Leu Leu Phe Leu Glu Ala Leu Ser Xaa
 35 40 45

<210> 96

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 96

Met Cys Leu Leu Ser Phe Asn Cys Lys Ala Val Leu Ser Leu Ser Leu
 1 5 10 15

Ile Ser Leu Ser Phe Leu Cys Cys Leu Glu Leu Cys Leu Ala Arg Cys
 20 25 30

Gly Gly Arg Arg Asn Val Ser Ala Pro Leu Lys Met Phe Ile Ile Xaa
 35 40 45

<210> 97

<211> 450

<212> PRT

<213> Homo sapiens

<400> 97

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu

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65 70 75 80
 Tyr Val Cys Gly Leu Ala Ser Thr Val Leu Phe Gly Leu Val Ala Ser
 85 90 95
 Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
 100 105 110
 Leu Thr Tyr Ser Leu Cys Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe
 115 120 125
 Val Leu Leu Val Gly Arg Ala Leu Gly Gly Leu Ser Thr Ala Leu Leu
 130 135 140
 Phe Ser Ala Phe Glu Ala Trp Tyr Ile His Glu His Val Glu Arg His
 145 150 155 160
 Asp Phe Pro Ala Glu Trp Ile Pro Ala Thr Phe Ala Arg Ala Ala Phe
 165 170 175
 Trp Asn His Val Leu Ala Val Val Ala Gly Val Ala Ala Glu Ala Val
 180 185 190
 Ala Ser Trp Ile Gly Leu Gly Pro Val Ala Pro Phe Val Ala Ala Ile
 195 200 205
 Pro Leu Leu Ala Leu Ala Gly Ala Leu Ala Leu Arg Asn Trp Gly Glu
 210 215 220
 Asn Tyr Asp Arg Gln Arg Ala Phe Ser Arg Thr Cys Ala Gly Gly Leu
 225 230 235 240
 Arg Cys Leu Leu Ser Asp Arg Arg Val Leu Leu Leu Gly Thr Ile Gln
 245 250 255
 Ala Leu Phe Glu Ser Val Ile Phe Ile Phe Val Phe Leu Trp Thr Pro
 260 265 270
 Val Leu Asp Pro His Gly Ala Pro Leu Gly Ile Ile Phe Ser Ser Phe
 275 280 285
 Met Ala Ala Ser Leu Leu Gly Ser Ser Leu Tyr Arg Ile Ala Thr Ser
 290 295 300
 Lys Arg Tyr His Leu Gln Pro Met His Leu Leu Ser Leu Ala Val Leu
 305 310 315 320
 Ile Val Val Phe Ser Leu Phe Met Leu Thr Phe Ser Thr Ser Pro Gly
 325 330 335
 Gln Glu Ser Pro Val Glu Ser Phe Ile Ala Phe Leu Leu Ile Glu Leu
 340 345 350
 Ala Cys Gly Leu Tyr Phe Pro Ser Met Ser Phe Leu Arg Arg Lys Val
 355 360 365
 Ile Pro Glu Thr Glu Gln Ala Gly Val Leu Asn Trp Phe Arg Val Pro
 370 375 380

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 000000 000000

Leu His Ser Leu Ala Cys Leu Gly Leu Leu Val Leu His Asp Ser Asp
385 390 395 400

Arg Lys Thr Gly Thr Arg Asn Met Phe Ser Ile Cys Ser Ala Val Met
405 410 415

Val Met Ala Leu Leu Ala Val Val Gly Leu Phe Thr Val Val Arg His
420 425 430

Asp Ala Glu Leu Arg Val Pro Ser Pro Thr Glu Glu Pro Tyr Ala Pro
435 440 445

Glu Leu
450

<210> 98
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation

<400> 98
Met Gln Ala His Pro Ile Phe Ile Tyr His Lys Arg Val Phe Phe Leu
1 5 10 15

Leu Lys Phe Ile Phe Tyr Ile Ile Phe Cys Phe Phe Phe Leu Asp Ile
20 25 30

Ser Thr Leu Tyr Cys Ser Leu Ser Thr Phe Cys Lys Lys Xaa
35 40 45

<210> 99
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals stop translation

<400> 99
Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe
1 5 10 15

Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
20 25 30

Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly Xaa
35 40 45

<210> 100
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 100
 Met Arg Arg Cys Phe Leu Val Leu Glu Ile Ser Val Cys Leu Met Val
 1 5 10 15

Ile Ile Val Phe Leu Asp Phe Trp Val Gly Gly Pro Gly Arg Gly Arg
 20 25 30

Leu Arg Asn Lys Ser Val Pro Gln Ile Thr Ser Ile Trp Lys Glu Phe
 35 40 45

Phe Val Xaa
 50

<210> 101
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals stop translation

<400> 101
 Met Cys Phe Arg Phe Met Met Ile Ile Phe Leu Thr Asn Val Ile Ser
 1 5 10 15

Val Ser Ala Val Ile Phe Lys Leu Arg Glu Arg Asp Ser Ile Arg Phe
 20 25 30

Phe Phe Phe Phe Ile Phe Leu Lys Xaa
 35 40

<210> 102
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

20250404

<400> 102

Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala Arg Pro Glu Val
 1 5 10 15

Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Leu Ala Thr Leu Gly
 20 25 30

Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys Glu Gln Lys Gly
 35 40 45

Gly Xaa
 50

<210> 103

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 103

Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro
 1 5 10 15

Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser
 20 25 30

Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn
 35 40 45

Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser Glu Trp
 50 55 60

Ser Leu Val Ile Cys His Pro Met Pro Ile Xaa
 65 70 75

<210> 104

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals stop translation

<400> 104

Met Leu Met Leu Ala Val Leu Met Ala Ala Thr His Ala Val Tyr Gly
 1 5 10 15

Lys Leu Leu Leu Phe Glu Tyr Arg His Arg Lys Met Lys Pro Val Gln
 20 25 30

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<220>
<221> SITE
<222> (61)
<223> Xaa equals stop translation
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<400> 106

Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
 20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
 35 40 45

Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly Xaa
 50 55 60

<210> 107

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals stop translation

<400> 107

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
 1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
 20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
 35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
 50 55 60

Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
 65 70 75 80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His
 85 90 95

Phe Ser Ser Thr Xaa Xaa
 100

<210> 108

<211> 154

<212> PRT

<213> Homo sapiens

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Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
1 5 10 15

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
35 40 45

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu
65 70 75 80

Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
100 105 110

Val	Leu	Leu	Val	Gly	Arg	Ala	Leu	Gly	Gly	Leu	Ser	Thr	Ala	Ala	Leu
130						135					140				

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<210> 109
<211> 55
<212> PRT
<213> Homo sapiens
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Val	Lys	Val	Lys	Glu	Lys	Ser	Ala	Ala	Glu	Gly	Thr	Gly	Lys	Lys	Pro
1				5					10					15	

Gly Pro Arg Lys Gln Arg Arg Thr Val Glu Lys Gly Gly Gly Gln Gly
35 40 45

$$\begin{array}{ll} \langle 210 \rangle & 110 \\ \langle 211 \rangle & 14 \end{array}$$

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Glu Glu His Arg Tyr Phe Lys Ala Asn Asp Thr Leu Gly Phe
1 5 10

<213> Homo sapiens

Gly Thr Ser Gly Thr Ser Gly Thr Arg Trp Asn Val His Phe
1 5 10

<213> Homo sapiens

Asp Gly Ala Gly Ala Phe Arg Ala Pro Ile Arg Glu Pro Gly Val Pro
1 5 10 15

Ala Ser Pro Gln Pro Pro Glu Pro Gly Gln Leu Leu Arg Arg Arg Gln
20 25 30

Gly His Arg Gly Gly Val Gly Ser Pro Arg Thr Pro Ala Gly Gly Ser
35 40 45

Arg Gly Arg Arg Leu Pro Ala Thr Lys Arg Gly Thr Ser Gly Arg Arg
50 55 60

Ala Arg Gly Ser Ser Gly Arg Ile Asn Ala Ser Gln Thr
65 70 75

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 113

Gln His Gly Leu Gln Ile Leu Leu Gln Arg Asp Gly Val Pro Gly Gly
1 5 10 15

Asp Ala Gly Glu Pro His Gly Gln Xaa Arg Gly Leu His Ala Gln Gln
20 25 30

Leu His Arg Pro Val Gly Ser Val Asp Leu Trp Ile Phe Arg Val Asp
35 40 45

Ala Ala Gly Ser Gly Pro Xaa Val Xaa Xaa Gly Asn Glu Leu Arg His
50 55 60

Leu Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu
65 70 75 80

Thr Gly Pro Pro Ala Val Gly Glu Pro Arg Ser Gly Pro Ser Ala Gly
85 90 95

Ser Ala Gly Pro Thr Ala Ala Ala Ser Pro Arg Pro Ala Ala Thr Ser
100 105 110

Pro Thr Gly Arg Ala His Ile Ala Gly Arg Cys Ser Gln Pro Thr Ala
115 120 125

Asp Asp Xaa Pro Glu Phe Val Cys Leu Lys Thr Leu Leu Leu Cys Leu
130 135 140

Arg Met Gly Glu Met Arg Ser Glu Ala Pro Gly Ala Ala Xaa Glu Lys
145 150 155 160

Asn Asn Phe Tyr Arg Asp Ala Arg Asp Ser Arg Gly Ser Gly Xaa Gly
165 170 175

Thr Gly Gly Asn Ala Ala Cys Ala Gln Ser Pro Leu Pro Arg Thr Ser
180 185 190

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Lys Ile Arg Ser Lys Leu Arg Gly Arg Gly Trp Gly Cys Arg Gly Gly
 195 200 205

Asp Ser Glu Pro Pro Val Arg Lys Gln
 210 215

<210> 114

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 114

Gln His Gly Leu-Gln Ile Leu Leu Gln Arg Asp Gly Val Pro Gly Gly
 1 5 10 15

Asp Ala Gly Glu Pro His Gly Gln Xaa Arg Gly Leu His Ala Gln Gln
 20 25 30

Leu His Arg Pro Val Gly Ser Val Asp Leu Trp Ile Phe Arg Val Asp
 35 40 45

Ala

<210> 115

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115

Ala Gly Ser Gly Pro Xaa Val Xaa Xaa Gly Asn Glu Leu Arg His Leu
 1 5 10 15

Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu Thr
 20 25 30

[illegible]

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Asp Xaa Pro Glu Phe Val Cys Leu Lys Thr Leu Leu Leu Cys Leu Arg
35 40 45

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Gly Asn Ala Ala Cys Ala Gln Ser Pro Leu Pro Arg Thr Ser Lys
35 40 45

<210> 118
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 118
 Ile Arg Ser Lys Leu Arg Gly Arg Gly Trp Gly Cys Arg Gly Gly Asp
 1 5 10 15
 Ser Glu Pro Pro Val Arg Lys Gln
 20

<210> 119
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 119
 Gly Thr Ser Pro Glu Ala Tyr Val Gly Pro Gly Gly Pro Glu Cys Pro
 1 5 10 15

<210> 120
 <211> 20
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 120
 Ser Cys Ile His Thr Gly Asp Val Met Ile Xaa Pro Val Leu Ser Cys
 1 5 10 15

Phe Thr Arg Phe
 20

<210> 121
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 121
 Gly Arg His Leu Val Ala Ser Gln Lys Arg Val Leu Arg Asp Arg Arg
 1 5 10 15

Val Gln Thr Gly Ile Trp Ser Asp Gln Leu Tyr Ser Gln Arg Pro Trp
 20 25 30

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Ala Pro Val Thr Trp Pro Asp His Trp Gly Val Cys Val Cys Val Tyr
 35 40 45

Val Cys
 50

<210> 122

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122

Ala Phe Pro His Ser Ile Pro Cys Gln Val Met Ala Val Pro Ser Pro
 1 5 10 15

Gln Leu Leu Leu Glu Arg Pro Xaa Leu Pro Val Ser Phe Met Phe Leu
 20 25 30

Thr Ser His Pro Pro Pro Arg Leu Val Cys Pro
 35 40

<210> 123

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 123

Leu Pro Thr Leu His Ser Leu Ser Ser Tyr Gly Cys Pro Leu Thr Pro
 1 5 10 15

Ala Ala Pro Arg Glu Ala Leu Xaa Thr Cys Val Ile His Val Ser Asn
 20 25 30

Lys Pro Pro Ser Thr Pro Ser Cys Val Pro His Ala Pro Val His Leu
 35 40 45

Cys Cys Val Gly Val Gly Gly Pro Phe Ala His Ala Trp Gly Ile Pro
 50 55 60

Cys Pro Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln Glu Ala
 65 70 75 80

Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala Thr Glu Thr Thr
 85 90 95

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76

Thr Arg His Ser Gln Arg Ala Ala Asp Gly Ser Ala Val Ser Thr Val
100 105 110

Thr Lys Thr Glu Arg Leu Val His Ser Asn Asp Gly Thr Arg Thr Ala
115 120 125

Arg Thr Thr Thr Val Glu Ser Ser Phe Val Arg Arg Ser Glu Asn Gly
130 135 140

Ser Gly Ser Thr Met Met Gln Thr Lys Thr Phe Ser Ser Ser Ser Ser
145 150 155 160

Ser Lys Lys Met Gly Ser Ile Phe Asp Arg Glu Asp Gln Ala Ser Pro
165 170 175

Arg Ala Gly Ser Leu Ala Ala Leu Glu Lys Arg Gln Ala Glu Lys Lys
180 185 190

Lys Glu Leu Met Lys Ala Gln Ser Leu Pro Lys Thr Ser Ala Ser Gln
195 200 205

Ala Arg Lys Ala Met Ile Glu Lys Leu Glu Lys Glu Gly Ala Ala Gly
210 215 220

Ser Pro Gly Gly Pro Arg Ala Ala Val Gln Arg Ser Thr Ser Phe Gly
225 230 235 240

Val Pro Asn Ala Asn Ser Ile Lys Gln Met Leu Leu Asp Trp Cys Arg
245 250 255

Ala Lys Thr Arg Gly Tyr Glu His Val Asp Ile Gln Asn Phe Ser Ser
260 265 270

Ser Trp Ser Asp Gly Met Ala Phe Cys Ala Leu Val His Asn Phe Phe
275 280 285

Pro Glu Ala Phe Asp Tyr Gly Gln Leu Ser Pro Gln Asn Arg Arg Gln
290 295 300

Asn Phe Glu Val Ala Phe Ser Ser Ala Glu Thr His Ala Asp Cys Pro
305 310 315 320

Gln Leu Leu Asp Thr Glu Asp Met Val Arg Leu Arg Glu Pro Asp Trp
325 330 335

Lys Cys Val Tyr Thr Tyr Ile Gln Glu Phe Tyr Arg Cys Leu Val Gln
340 345 350

Lys Gly Leu Val Lys Thr Lys Lys Ser
355 360

<210> 124

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124

Leu Pro Thr Leu His Ser Leu Ser Ser Tyr Gly Cys Pro Leu Thr Pro
 1 5 10 15

Ala Ala Pro Arg Glu Ala Leu Xaa Thr Cys Val Ile His Val Ser Asn
 20 25 30

Lys Pro Pro Ser Thr Pro Ser Cys Val Pro His Ala Pro Val
 35 40 45

<210> 125

<211> 46

<212> PRT

<213> Homo sapiens

<400> 125

His Leu Cys Cys Val Gly Val Gly Gly Pro Phe Ala His Ala Trp Gly
 1 5 10 15

Ile Pro Cys Pro Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln
 20 25 30

Glu Ala Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala
 35 40 45

<210> 126

<211> 46

<212> PRT

<213> Homo sapiens

<400> 126

Thr Glu Thr Thr Thr Arg His Ser Gln Arg Ala Ala Asp Gly Ser Ala
 1 5 10 15

Val Ser Thr Val Thr Lys Thr Glu Arg Leu Val His Ser Asn Asp Gly
 20 25 30

Thr Arg Thr Ala Arg Thr Thr Thr Val Glu Ser Ser Phe Val
 35 40 45

<210> 127

<211> 46

<212> PRT

<213> Homo sapiens

<400> 127

Arg Arg Ser Glu Asn Gly Ser Gly Ser Thr Met Met Gln Thr Lys Thr
 1 5 10 15

Phe Ser Ser Ser Ser Ser Ser Lys Lys Met Gly Ser Ile Phe Asp Arg
 20 25 30

Glu Asp Gln Ala Ser Pro Arg Ala Gly Ser Leu Ala Ala Leu
 35 40 45

<210> 128
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 128
 Glu Lys Arg Gln Ala Glu Lys Lys Lys Glu Leu Met Lys Ala Gln Ser
 1 5 10 15

Leu Pro Lys Thr Ser Ala Ser Gln Ala Arg Lys Ala Met Ile Glu Lys
 20 25 30

Leu Glu Lys Glu Gly Ala Ala Gly Ser Pro Gly Gly Pro Arg Ala
 35 40 45

<210> 129
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ala Val Gln Arg Ser Thr Ser Phe Gly Val Pro Asn Ala Asn Ser Ile
 1 5 10 15

Lys Gln Met Leu Leu Asp Trp Cys Arg Ala Lys Thr Arg Gly Tyr Glu
 20 25 30

His Val Asp Ile Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
 35 40 45

<210> 130
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 130
 Ala Phe Cys Ala Leu Val His Asn Phe Phe Pro Glu Ala Phe Asp Tyr
 1 5 10 15

Gly Gln Leu Ser Pro Gln Asn Arg Arg Gln Asn Phe Glu Val Ala Phe
 20 25 30

Ser Ser Ala Glu Thr His Ala Asp Cys Pro Gln Leu Leu Asp Thr Glu
 35 40 45

Asp

<210> 131
 <211> 34

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<212> PRT
 <213> Homo sapiens

<400> 131
 Met Val Arg Leu Arg Glu Pro Asp Trp Lys Cys Val Tyr Thr Tyr Ile
 1 5 10 15
 Gln Glu Phe Tyr Arg Cys Leu Val Gln Lys Gly Leu Val Lys Thr Lys
 20 25 30
 Lys Ser

<210> 132
 <211> 341
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (162)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (326)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (333)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 132
 Lys Met Glu Trp Leu Ala Asp Pro Thr Ala Trp Leu Gly Leu Leu Thr
 1 5 10 15

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Leu Ile Val Leu Xaa Leu Val Leu Gly Ile Asp Asn Leu Val Phe Ile
20 25 30

Xaa Ile Xaa Ala Xaa Lys Leu Pro Pro Glu Gln Arg Asp Arg Ala Arg
35 40 45

Leu Ile Gly Leu Ser Leu Ala Leu Leu Met Arg Leu Gly Leu Leu Ala
50 55 60

Ser Ile Ser Trp Leu Val Thr Leu Thr Gln Pro Leu Phe Glu Val Phe
65 70 75 80

Asp Lys Ser Phe Ser Gly Arg Asp Leu Ile Met Leu Phe Gly Gly Val
85 90 95

Phe Leu Leu Phe Lys Ala Thr Met Glu Leu His Glu Arg Leu Glu Gly
100 105 110

His Val Ala Gln Arg Thr Gly Asn Val Ala Tyr Ala Met Phe Trp Pro
115 120 125

Ile Val Ala Gln Ile Val Val Leu Asp Ala Val Phe Ser Leu Asp Ala
130 135 140

Val Ile Thr Ala Val Gly Met Val Asp Glu Leu Ala Val Met Met Ile
145 150 155 160

Ala Xaa Ile Ile Ser Ile Gly Leu Met Ile Val Ala Ser Lys Pro Leu
165 170 175

Thr Arg Phe Val Asn Ala His Pro Thr Val Ile Met Leu Cys Leu Gly
180 185 190

Phe Leu Met Met Ile Gly Phe Ala Leu Thr Ala Glu Gly Leu Gly Phe
195 200 205

His Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Ile Leu
210 215 220

Ile Glu Leu Phe Asn Gln Ile Ala Arg Ser Arg Arg Lys Lys Ser Ala
225 230 235 240

Gln Gly Thr Leu Pro Arg Arg Glu Arg Thr Ala His Ala Val Met Arg
245 250 255

Leu Leu Gly Gly Arg Asn Leu Ala Val Glu Glu Val Gly Glu Glu Val
260 265 270

Ala Asp Leu Leu Asp Asn Pro Asp Ala Asn Gly Gly Pro Leu Phe Asp
275 280 285

Arg Arg Glu Arg Val Met Ile Ser Gly Val Leu Gln Leu Ala Glu Arg
290 295 300

Pro Ile Arg Thr Leu Met Thr Pro Arg Ala Lys Val Asp Ser Ile Asp
305 310 315 320

Leu Ser Asp Asp Pro Xaa Thr Ile Arg Leu Lys Leu Xaa Ile Arg Leu

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325

81
330

335

Thr Arg Ala Cys Pro
340

<210> 133

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 133

Lys	Met	Glu	Trp	Leu	Ala	Asp	Pro	Thr	Ala	Trp	Leu	Gly	Leu	Leu	Thr
1				5					10					15	

Leu	Ile	Val	Leu	Xaa	Leu	Val	Leu	Gly	Ile	Asp	Asn	Leu	Val	Phe	Ile
		20						25						30	

Xaa	Ile	Xaa	Ala	Xaa	Lys	Leu	Pro	Pro	Glu	Gln	Arg	Asp	Arg	Ala	Arg
		35					40					45			

<210> 134

<211> 49

<212> PRT

<213> Homo sapiens

<400> 134

Leu	Ile	Gly	Leu	Ser	Leu	Ala	Leu	Leu	Met	Arg	Leu	Gly	Leu	Leu	Ala
1				5					10					15	

Ser	Ile	Ser	Trp	Leu	Val	Thr	Leu	Thr	Gln	Pro	Leu	Phe	Glu	Val	Phe
			20					25					30		

Asp	Lys	Ser	Phe	Ser	Gly	Arg	Asp	Leu	Ile	Met	Leu	Phe	Gly	Gly	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

45

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<400> 137
Leu Met Met Ile Gly Phe Ala Leu Thr Ala Glu Gly Leu Gly Phe His
   1                               5               10              15
Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Ile Leu Ile
          20                25                 30
```

83

Glu Leu Phe Asn Gln Ile Ala Arg Ser Arg Arg Lys Lys Ser Ala Gln
 35 40 45

Gly Thr
 50

<210> 138
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 138
 Leu Pro Arg Arg Glu Arg Thr Ala His Ala Val Met Arg Leu Leu Gly
 1 5 10 15

Gly Arg Asn Leu Ala Val Glu Glu Val Gly Glu Glu Val Ala Asp Leu
 20 25 30

Leu Asp Asn Pro-Asp Ala Asn Gly Gly Pro Leu Phe Asp Arg Arg Glu
 35 40 45

<210> 139
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 139
 Arg Val Met Ile Ser Gly Val Leu Gln Leu Ala Glu Arg Pro Ile Arg
 1 5 10 15

Thr Leu Met Thr Pro Arg Ala Lys Val Asp Ser Ile Asp Leu Ser Asp
 20 25 30

Asp Pro Xaa Thr Ile Arg Leu Lys Leu Xaa Ile Arg Leu Thr Arg Ala
 35 40 45

Cys Pro
 50

<210> 140
 <211> 15
 <212> PRT

10053549 005002

<213> Homo sapiens

<400> 140

Leu Leu Thr Ser Pro Val Ser Trp His Ser Thr Val Pro Ser Trp
 1 5 10 15

<210> 141

<211> 12

<212> PRT

<213> Homo sapiens

<400> 141

Ser Ala Leu Ser Ile Ser Asn His Gln Gly Phe Phe
 1 5 10

<210> 142

<211> 32

<212> PRT

<213> Homo sapiens

<400> 142

His Lys Gly Ser Gly Arg Pro Pro Thr Lys Glu Ala Met Glu Pro Met
 1 5 10 15

Glu Leu Met Glu Glu Met Leu Gly Leu Trp Val Ser Ala Asp Thr Pro
 20 25 30

<210> 143

<211> 10

<212> PRT

<213> Homo sapiens

<400> 143

Thr Val Lys His Glu Val Ile His Ala Leu
 1 5 10

<210> 144

<211> 562

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

10063443 000000

Leu Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Xaa Arg Leu Trp
210 215 220

530

535

540

Pro Ala Thr Asn Leu Thr Arg Ala Leu Pro Leu Asp Leu Cys Ser Cys
 545 550 555 560

Ser Ser

<210> 145

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 145

Glu Xaa Leu Leu Pro Glu Lys Lys Asn Leu Val Lys Asn Lys Leu Leu
 1 5 10 15

Xaa Xaa Ala Ile Ser Tyr Leu Glu Lys Thr Phe Gln Val Arg Arg Pro
 20 25 30

Ala Gly Thr Ile Leu Leu Ser Arg Gln Cys Ala Thr Asn Gln Tyr
 35 40 45

<210> 146

<211> 45

<212> PRT

<213> Homo sapiens

<400> 146

Leu Arg Lys Glu Asn Asp Pro His Arg Tyr Cys Thr Gly Glu Cys Ala
 1 5 10 15

Ala His Thr Lys Cys Gly Pro Val Ile Val Pro Glu Glu His Leu Gln
 20 25 30

Gln Cys Arg Val Tyr Arg Gly Gly Lys Trp Pro His Gly
 35 40 45

<210> 147

<211> 45

10062540 0005002

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2

Ile Ser Tyr Ala Ala Tyr Cys Gln Gln Glu Ala Asn Met
35 40 45

<213> Homo sapiens

Val Ile His Ala Leu Gly Phe Ser Ala Gly Leu Phe Ala Phe
35 40 45

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Val Val Arg Lys Val Xaa Arg Leu Trp Asp Val Arg Asp
35 40 45

<213> Homo sapiens

Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr Pro Arg Val

1 5 89 10 15
 Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu Glu Gly Met
 20 25 30

Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn His
 35 40 45

<210> 151
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 151
 Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His Thr
 1 5 10 15

Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp Thr
 20 25 30

Gly Trp Tyr Lys Ala Asn Tyr Ser Met Ala Glu Lys Leu
 35 40 45

<210> 152
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 152
 Asp Trp Gly Arg Gly Met Gly Cys Asp Phe Val Arg Lys Ser Cys Lys
 1 5 10 15

Phe Trp Ile Asp Gln Gln Arg Gln Lys Arg Gln Met Leu Ser Pro Tyr
 20 25 30

Cys Asp Thr Leu Arg Ser Asn Pro Leu Gln Leu Thr Cys
 35 40 45

<210> 153
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 153
 Arg Gln Asp Gln Arg Ala Val Ala Val Cys Asn Leu Gln Lys Phe Pro
 1 5 10 15

Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe Asp Glu Leu Ser Gly Ile
 20 25 30

Pro Ala Glu Asp Leu Pro Tyr Tyr Gly Gly Ser Val Glu Ile Ala
 35 40 45

<210> 154

10063341 033302

<211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
 Asp Tyr Xaa Pro Phe Ser Gln Glu Phe Ser Trp His Leu Ser Gly Glu
 1 5 10 15
 Tyr Gln Arg Ser Ser Asp Cys Arg Ile Leu Glu Asn Gln Pro Glu Ile
 20 25 30
 Phe Lys Asn Tyr Gly Ala Glu Lys Tyr Gly Pro His Ser Val Cys Leu
 35 40 45

<210> 155
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 155
 Ile Gln Lys Ser Ala Phe Val Met Glu Lys Cys Glu Arg Lys Leu Ser
 1 5 10 15
 Tyr Pro Asp Trp Gly Ser Gly Cys Tyr Gln Val Ser Cys Ser Pro Gln
 20 25 30
 Gly Leu Lys Val Trp Val Gln Asp Thr Ser Tyr Leu Cys Ser
 35 40 45

<210> 156
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 156
 Arg Ala Gly Gln Val Leu Pro Val Ser Ile Gln Met Asn Gly Trp Ile
 1 5 10 15
 His Asp Gly Asn Leu Leu Cys Pro Ser Cys Trp Asp Phe Cys Glu Leu
 20 25 30
 Cys Pro Pro Glu Thr Asp Pro Pro Ala Thr Asn Leu Thr Arg Ala Leu
 35 40 45
 Pro Leu Asp Leu Cys Ser Cys Ser Ser
 50 55

10062548 033500

<210> 157
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 157
 Ile Lys Glu Lys Leu His Val His Gly
 1 5

<210> 158
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 158
 Gly Phe Gly Val Tyr Ile Leu Tyr Ala
 1 5

<210> 159
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 159
 Lys Pro Ser Gly Thr Val Tyr Thr Leu Phe Ser Leu Asn Ser Gly Thr
 1 5 10 15

Leu

<210> 160
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 160
 Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
 1 5 10 15

Val Gly Leu

<210> 161
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 161
 Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
 1 5 10 15

Val Gly Leu

10062543 020502

<210> 162
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 162
 Gly Ser Asn Lys Leu Ile Asn His Leu Glu Gln Cys Ser Ile Gly Trp
 1 5 10 15
 Ile Phe Val Cys Leu Phe Val Cys Cys Tyr Ser Phe Cys Val Met Phe
 20 25 30
 Cys Ile Gln Gln Lys Trp Leu Phe Ser Phe Leu Phe Tyr Glu Val Gly
 35 40 45
 Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys Ser Val
 50 55 60
 Glu Val Phe Pro Ser Gln Asp Val Lys Cys Gln Arg Ser Asp Ser Cys
 65 70 75 80
 Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn Glu Val
 85 90 95
 Arg Gln Leu Ser Leu Arg Gln Lys Thr Met
 100 105

<210> 163
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 163
 Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
 1 5 10 15
 Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
 20 25 30
 Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
 35 40 45
 Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu
 50 55 60

<210> 164
 <211> 103
 <212> PRT
 <213> Homo sapiens

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<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 164

Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
 1 5 10 15

Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
 20 25 30

Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
 35 40 45

Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu Met Glu Thr Thr
 50 55 60

Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile Ile Ser Asn Leu
 65 70 75 80

Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln Arg Val Asp Leu
 85 90 95

Ser Ser Thr His Glu Asp Leu
 100

<210> 165

<211> 27

<212> PRT

<213> Homo sapiens

<400> 165

Asp Ser Pro Leu Thr Val Leu Pro Glu Asp Gly Tyr Gly Ser Asp Ser
 1 5 10 15

His Leu Ser Ser Gln Val Val Arg Gly Pro Thr
 20 25

<210> 166

<211> 153

<212> PRT

<213> Homo sapiens

<400> 166

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

1006348 020500

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu
65 70 75 80

Tyr Val Cys Gly Leu Ala Ser Thr Val Leu Phe Gly Leu Val Ala Ser
85 90 95

Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
100 105 110

Leu Thr Tyr Ser Leu Cys Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe
115 120 125

Val Leu Leu Val Gly Arg Ala Leu Gly Gly Leu Ser Thr Ala Ala Leu
130 135 140

Leu Ser Leu Arg Gly Leu Val Tyr Pro
145 150

<210> 167

<211> 508

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 167

Gly Gly Gly Gln Arg Xaa Ala Arg Leu Pro Glu Ala Gly Cys Glu Gly
1 5 10 15

Arg Glu Arg Cys Trp Asn Pro Ser Arg Ser Arg Ser His Ser Gly Glu
20 25 30

Gly Gly Leu Ala Ala Trp Ser Arg Thr Cys Pro Gly Arg Pro Arg Arg
35 40 45

Pro Gly Gln Gln Val Val Arg Gly Pro Thr Met Leu Val Thr Ala Tyr
50 55 60

Leu Ala Phe Val Gly Leu Leu Ala Ser Cys Leu Gly Leu Glu Leu Ser
65 70 75 80

Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala Cys Ser Asn Pro Ser Phe
85 90 95

Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val Tyr Phe Leu Ala Leu Ala
100 105 110

Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr Lys Leu Tyr Gln His Tyr
115 120 125

Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu Tyr Val Cys Gly Leu Ala
130 135 140

20250303 14:33:33

Ser Thr Val Leu Phe Gly Leu Val Ala Ser Ser Leu Val Asp Trp Leu
 145 150 155 160
 Gly Arg Lys Asn Ser Cys Val Leu Phe Ser Leu Thr Tyr Ser Leu Cys
 165 170 175
 Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe Val Leu Leu Val Gly Arg
 180 185 190
 Ala Leu Gly Gly Leu Ser Thr Ala Leu Leu Phe Ser Ala Phe Glu Ala
 195 200 205
 Trp Tyr Ile His Glu His Val Glu Arg His Asp Phe Pro Ala Glu Trp
 210 215 220
 Ile Pro Ala Thr Phe Ala Arg Ala Ala Phe Trp Asn His Val Leu Ala
 225 230 235 240
 Val Val Ala Gly Val Ala Ala Glu Ala Val Ala Ser Trp Ile Gly Leu
 245 250 255
 Gly Pro Val Ala Pro Phe Val Ala Ala Ile Pro Leu Leu Ala Leu Ala
 260 265 270
 Gly Ala Leu Ala Leu Arg Asn Trp Gly Glu Asn Tyr Asp Arg Gln Arg
 275 280 285
 Ala Phe Ser Arg Thr Cys Ala Gly Gly Leu Arg Cys Leu Leu Ser Asp
 290 295 300
 Arg Arg Val Leu Leu Leu Gly Thr Ile Gln Ala Leu Phe Glu Ser Val
 305 310 315 320
 Ile Phe Ile Phe Val Phe Leu Trp Thr Pro Val Leu Asp Pro His Gly
 325 330 335
 Ala Pro Leu Gly Ile Ile Phe Ser Ser Phe Met Ala Ala Ser Leu Leu
 340 345 350
 Gly Ser Ser Leu Tyr Arg Ile Ala Thr Ser Lys Arg Tyr His Leu Gln
 355 360 365
 Pro Met His Leu Leu Ser Leu Ala Val Leu Ile Val Val Phe Ser Leu
 370 375 380
 Phe Met Leu Thr Phe Ser Thr Ser Pro Gly Gln Glu Ser Pro Val Glu
 385 390 395 400
 Ser Phe Ile Ala Phe Leu Leu Ile Glu Leu Ala Cys Gly Leu Tyr Phe
 405 410 415
 Pro Ser Met Ser Phe Leu Arg Arg Lys Val Ile Pro Glu Thr Glu Gln
 420 425 430
 Ala Gly Val Leu Asn Trp Phe Arg Val Pro Leu His Ser Leu Ala Cys
 435 440 445
 Leu Gly Leu Leu Val Leu His Asp Ser Asp Arg Lys Thr Gly Thr Arg

1006343 343333
 2000000 2450000

460

Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu
20 25

<210> 171
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 171
 Lys Pro Thr Lys Met Pro Leu Leu Trp Val Trp Ala Leu Ile Ala Ala
 1 5 10 15
 Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu Met Gly Val Leu Leu Leu
 20 25 30
 Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe Ser Pro Val Val Leu Pro
 35 40 45
 Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe Val Phe Cys Thr Ser Phe
 50 55 60
 Trp Arg Pro Leu Ser Phe Gln Lys Gly
 65 70

<210> 172
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 172
 Cys Phe Thr His Trp Asn Val Phe Pro Arg Leu Trp Met Thr Ser Phe
 1 5 10 15
 Leu Met Glu Arg Val Gln Glu Gly Trp Lys Thr Pro Gly Phe Lys Leu
 20 25 30
 Ser Ile Pro His Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala
 35 40 45
 Arg Pro Glu Val Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Leu
 50 55 60
 Ala Thr Leu Gly Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys
 65 70 75 80
 Glu Gln Lys Gly Gly
 85